AUTODOC CLUB

How to change front brake pad wear sensor on **MERCEDES-BENZ GL (X166)** – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

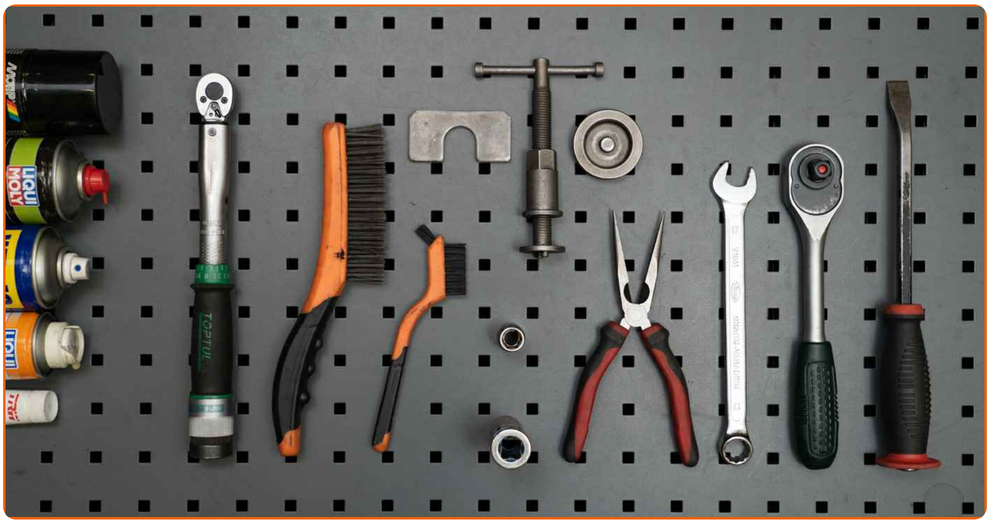
Important!

This replacement procedure can be used for:
MERCEDES-BENZ GL (X166) GL 400 4-matic (166.856), MERCEDES-BENZ GL (X166) GL 350 CDI / BlueTec 4-matic (166.823, 166.824), MERCEDES-BENZ GL (X166) GL 500 4-matic (166.873, 166.874), MERCEDES-BENZ GL (X166) GL 63 AMG 4-matic (166.874), MERCEDES-BENZ GL (X166) GL 500 4-matic (166.873), MERCEDES-BENZ GL (X166) GL 350 CDI / BlueTEC 4-matic (166.824)

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ C-Class Saloon (W204) C 220 CDI (204.008)

REPLACEMENT: BRAKE PAD WEAR SENSOR – MERCEDES-BENZ GL (X166). TOOLS YOU MIGHT NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Electronic spray
- Brake cleaner
- Anti-squeal paste
- Ceramic grease
- Torque wrench
- Combination spanner #17
- Drive socket # 13
- Wheel impact socket #17
- Ratchet wrench
- Long nose pliers
- Brake caliper wind back tool
- Crow bar
- Wheel chock

Buy tools

Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166). Tip from AUTODOC:

- The replacement procedure is identical for both brake pad wear sensors on the same axle.
- The wear sensors should be replaced together with the brake pads.
- Please note: all work on the car – MERCEDES-BENZ GL (X166) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.

2 Secure the wheels with chocks.

3 Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the car.

Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166).
AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

5

Unscrew the wheel bolts.



AUTODOC recommends:

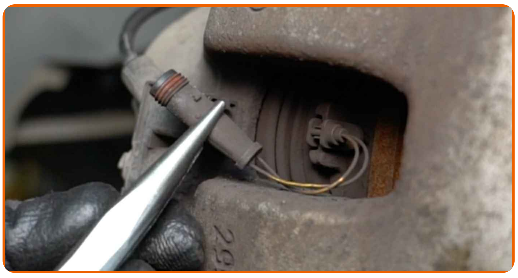
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ GL (X166)

6

Remove the wheel.



7 Detach the connector of the brake pad wear sensor. Use long nose pliers.

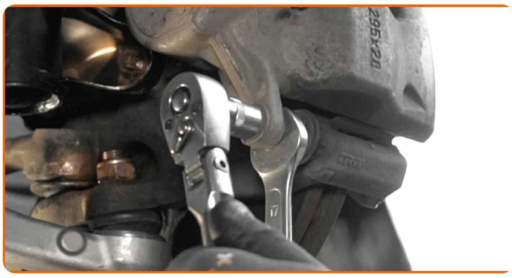


8 Spread the brake pads. Use a crowbar.



9 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.

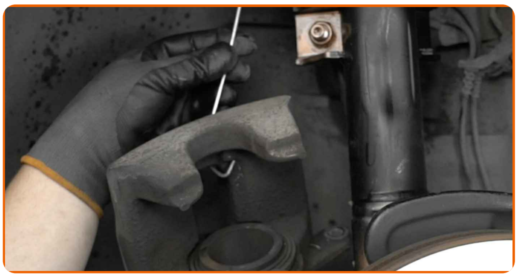
10 Unscrew the brake caliper fasteners. Use a combination spanner #17. Use a drive socket #13. Use a ratchet wrench.



11 Remove the fastening bolts.



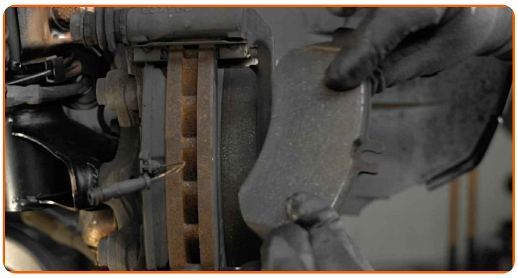
12 Remove the brake caliper.



Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166). Tip:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

13 Remove the brake pads.



14 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

- After applying the spray, wait a few minutes.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

15 Treat the brake caliper piston. Use a nylon cleaning brush. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166). After applying the spray, wait a few minutes.

16 Press in the brake caliper piston. Use brake caliper wind back tool.



17 Attach the new wear sensor to the new pad.



18 Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.



AUTODOC recommends:

- Make sure the disc surface is clean before installing the pads.

19 Install the brake pads.



20 Install the brake caliper and fix it.



21 Install the fastening bolts.



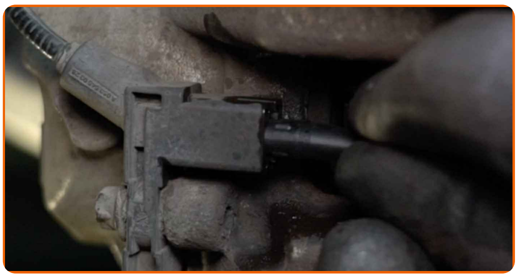
22 Tighten the brake caliper fasteners. Use a combination spanner #17. Use a drive socket #13. Use a torque wrench. Tighten it to 34 Nm torque.



23 Treat the brake pad wear sensor plug. Use dielectric grease.



24 Attach the connector of the brake pad wear sensor.



25 Clean the wheel rim mounting seat. Use a wire brush.



26 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



27 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- After applying the spray, wait a few minutes.

28 Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ GL (X166)

29 Screw in the wheel bolts. Use wheel impact socket #17.



30 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 130 Nm torque.



31 Remove the jacks and chocks.



Replacement: brake pad wear sensor – MERCEDES-BENZ GL (X166).
AUTODOC experts recommend:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

32 Tighten the brake fluid reservoir cap. Close the hood.

WELL DONE!

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DISCLAIMER:

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